

# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/849,977	05/20/2004	George F. Fanta	0180.02	8630
25712 75	90 12/13/2005		EXAMINER	
USDA-ARS-OFFICE OF TECHNOLOGY TRANSFER NATIONAL CTR FOR AGRICULTURAL UTILIZATION RESEARCH			BISSETT, MELANIE D	
1815 N. UNIVERSITY STREET		ART UNIT	PAPER NUMBER	
PEORIA, IL 6	51604		1711	

DATE MAILED: 12/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

W

	Application No.	Applicant(s)	
	10/849,977	FANTA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Melanie D. Bissett	1711	
The MAILING DATE of this communicati Period for Reply	on appears on the cover sheet w	ith the correspondence addres	is
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAILI  - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica  - If NO period for reply is specified above, the maximum statutory  - Failure to reply within the set or extended period for reply will, be Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS COMMUNICFR 1.136(a). In no event, however, may a lition.  In period will apply and will expire SIX (6) MO by statute, cause the application to become A	ICATION.  reply be timely filed  NTHS from the mailing date of this commu BANDONED (35 U.S.C. § 133).	
Status			
<ul> <li>1) Responsive to communication(s) filed or</li> <li>2a) This action is FINAL.</li> <li>3) Since this application is in condition for a closed in accordance with the practice u</li> </ul>	This action is non-final. allowance except for formal materials.	•	erits is
Disposition of Claims			
4) ⊠ Claim(s) 1-17 and 28 is/are pending in the 4a) Of the above claim(s) is/are w 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-17,28 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction	ithdrawn from consideration.		
Application Papers			
9) The specification is objected to by the Ex 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by	☐ accepted or b)☐ objected to to the drawing(s) be held in abeya correction is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:  1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International E * See the attached detailed Office action for	uments have been received. uments have been received in A e priority documents have beer Bureau (PCT Rule 17.2(a)).	Application No  n received in this National Stag	je
Attachment(s)	ı	•	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-9-3) Information Disclosure Statement(s) (PTO-1449 or PTO/Paper No(s)/Mail Date	48) Paper No(	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152 	) .

Application/Control Number: 10/849,977 Page 2

Art Unit: 1711

1. The rejections based on 35 USC 103 have been maintained for the reasons cited below. The double patenting rejections have been withdrawn based on the filing of the terminal disclaimer.

#### Terminal Disclaimer

2. The terminal disclaimer filed on 23 September 2005 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US 6,709,763 has been reviewed and is accepted. The terminal disclaimer has been recorded.

## Claim Rejections - 35 USC § 103

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 1-17 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fanta et al. ("Formation of Hydrophilic Starch Coatings on Polyethylene Films" from *Journal of Applied Polymer Science*) in view of Weaver et al. It is the examiner's position that the earliest effective filing date for the current application is 20 November 2002 since the parent US application does not support the graft copolymer limitations.
- 5. From a prior Office action:

Fanta discloses thin starch coatings for polyethylene film substrates, where the coatings are jet cooked solubilized starch solutions from waxy or high amylose cornstarch and are applied in amounts of 0.03-0.05 mg per cm² of substrate (abstract). Because the reference teaches the claimed application amounts, it is the examiner's position that the reference teaches the claimed thickness of about 1 micron or less. Coatings appear to

Art Unit: 1711

have nodules (Figure 2). Also, because the reference teaches application of the coatings to polyethylene bags (p. 1783), it is the examiner's position that the reference suggests applying the coatings to a three-dimensional object.

Although the reference teaches hydrophobic substrates coated with solubilized starch coatings, Fanta does not disclose graft copolymers of solubilized starch. Weaver teaches starch-containing polymer compositions for absorbing water in diapers, surgical pads and sheets, and paper towels (abstract). Starch-polyacrylonitrile graft polymers are formed, where the starch used has been solubilized (col. 2 lines 44-49; col. 3 lines 43-51). The starch-polyacrylonitrile graft copolymers have improved water absorption (abstract). Thus, it is the examiner's position that it would have been prima facie obvious to use starch-polyacrylonitrile graft copolymers in the coatings of Fanta's invention to produce coatings of improved water absorption.

### Response to Arguments

- 6. The applicant's argument that, to the extent that the publication teaches the claimed invention, Applicants have disclosed that invention in an earlier document. However, the MPEP is clear that claims in CIP applications not supported by the parent application receive the filing date of the CIP application. See MPEP 2133.01. In this case, the present claims are not supported in the original parent case but are supported in the CIP parent, which has a filing date of 20 November 2002. For this reason, the present claims receive an earliest filing date of 20 November 2002, regardless of what the cited reference teaches.
- Regarding the declarations, the MPEP suggests that rejections using documents of different inventive entities may be overcome by a declaration under 37 CFR 1.132 by the *applicant* to establish that the article is describing his/her own work. An affidavit or declaration by applicant alone indicating that applicant is the sole inventor and that the others were merely working under his or her direction is sufficient to remove the publication as a reference under 35 U.S.C.

Application/Control Number: 10/849,977

Art Unit: 1711

102(a). See MPEP 715.01(c). It is the examiner's position that the declarations filed 23 September 2005 have not overcome the prior art since they do not establish that the publication describes the applicant's own work as signed by the applicants themselves.

#### Conclusion

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie D. Bissett whose telephone number is (571) 272-1068. The examiner can normally be reached on M-F 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on (571) 272-1078. The

Art Unit: 1711

fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Melanie D. Bissett Primary Examiner Art Unit 1711

mdb